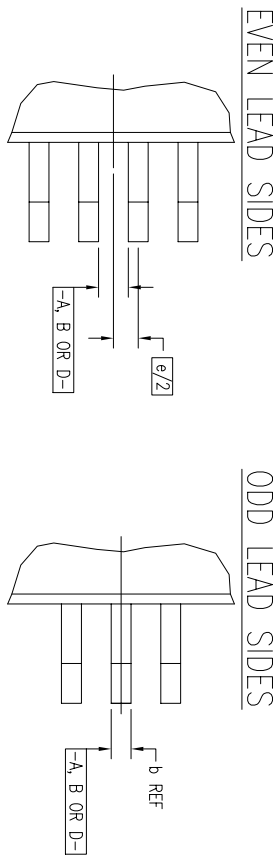
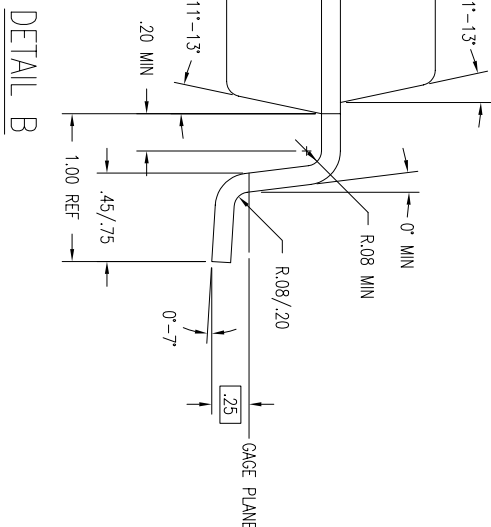
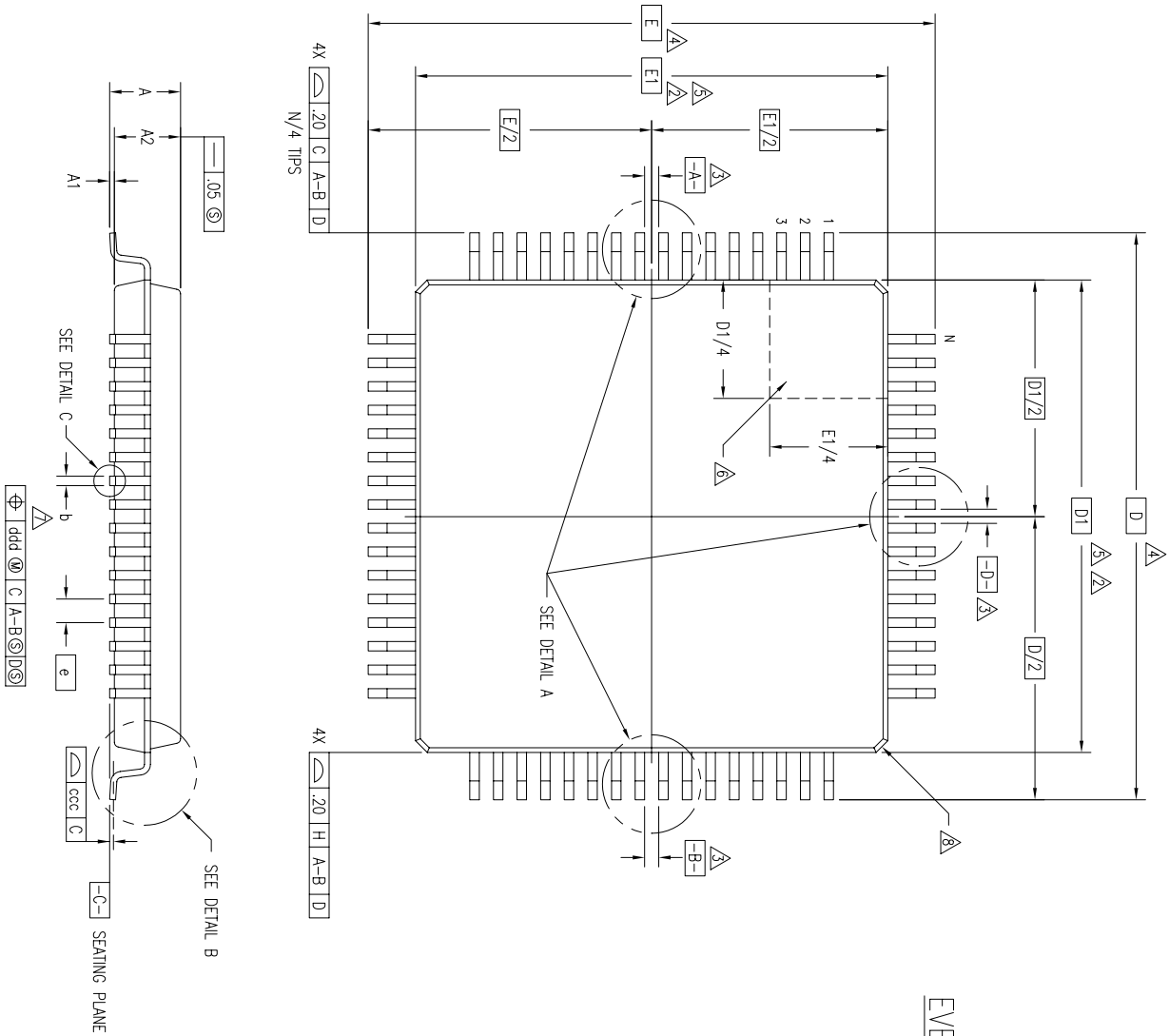


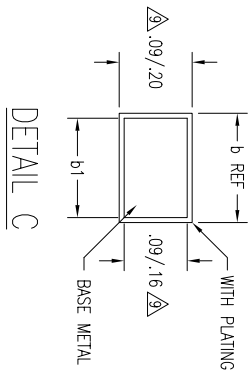
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
01	ADD 80 & 100 LD	02/26/93	T. VU
02	ADD 120 LD	10/06/93	T. VU
03	REDRAW TO JEDEC FORMAT	12/10/94	TU VU
04	ADD "GREEN" PNG NOMENCLATURE	10/13/04	REV T.
05	ADD 128 LD	4/25/08	RC
06	ADD PACKAGE CODE	12/12/12	



DETAIL A



DETAIL B



DETAIL C

TOLERANCES UNLESS SPECIFIED		6024 Silver Creek Valley Road	
DECIMAL	ANGULAR	San Jose, CA 95138	
±	±	PHONE: (408) 284-8200	
XXX±		FAX: (408) 284-8591	
XXXX±			
XXXX±			
APPROVALS	DATE	TITLE	
		PN/PNG PACKAGE OUTLINE	
DRAWN		14.0 X 14.0 X 1.4 mm TQFP	
CHECKED		1.00/.10 FORM	
SIZE	DRAWING No.	REV	
C	PSC-4036	06	
DO NOT SCALE DRAWING		SHEET 1 OF 2	

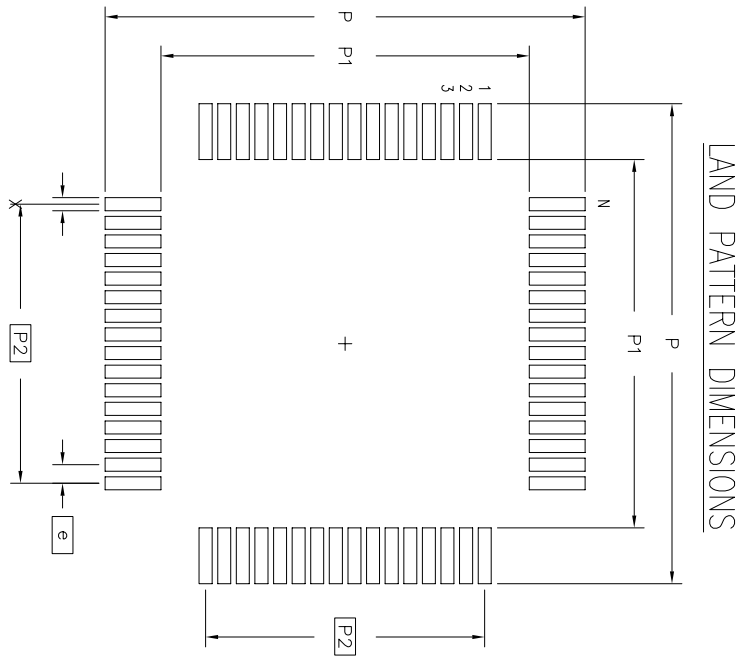
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
01	ADD 80 & 100 LD	02/26/93	T. VU
02	ADD 120 LD	10/06/93	T. VU
03	REDRAW TO JEDEC FORMAT	11/18/94	TU VU
04	ADD "GREEN" PNG NOMENCLATURE	10/13/04	REV T.
05	ADD 128 LD	4/25/08	RC
06	ADD PACKAGE CODE	12/12/12	RC

SYMBOL	PN/PNG64			PN/PNG80			PN/PNG100			PN/PNG120			PN/PNG128		
	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX
A	.05	.10	.15	.05	.10	.15	.05	.10	.15	.05	.10	.15	.05	.10	.15
A2	1.35	1.40	1.45	1.35	1.40	1.45	1.35	1.40	1.45	1.35	1.40	1.45	1.35	1.40	1.45
D	16.00	BSC		16.00	BSC		16.00	BSC		16.00	BSC		16.00	BSC	
D1	14.00	BSC	5.2	14.00	BSC	5.2	14.00	BSC	5.2	14.00	BSC	5.2	14.00	BSC	5.2
E	16.00	BSC	4	16.00	BSC	4	16.00	BSC	4	16.00	BSC	4	16.00	BSC	4
E1	14.00	BSC	5.2	14.00	BSC	5.2	14.00	BSC	5.2	14.00	BSC	5.2	14.00	BSC	5.2
N	64			80			100			120			128		
e	.80	BSC		.65	BSC		.50	BSC		.40	BSC		.40	BSC	
b	.30	.37	.45	.22	.32	.38	.17	.22	.27	.13	.18	.23	.13	.18	.23
b1	.30	.35	.40	.22	.30	.33	.17	.20	.23	.13	.16	.19	.13	.16	.19
ccc	-	-	.10	-	-	.10	-	-	.08	-	-	.08	-	-	.10
ddd	-	-	.20	-	-	.13	-	-	.08	-	-	.07	-	-	.07

NOTES:

- 1 ALL DIMENSIONING AND TOLERANCING CONFORM TO ANSI Y14.5M-1982
- TOP PACKAGE MAY BE SMALLER THAN BOTTOM PACKAGE BY .15 mm
- DATUMS [A-B] AND [-D-] TO BE DETERMINED AT DATUM PLANE [-H-]
- DIMENSIONS D AND E ARE TO BE DETERMINED AT SEATING PLANE [-C-]
- DIMENSIONS D1 AND E1 DO NOT INCLUDE MOLD PROTRUSION. ALLOWABLE MOLD PROTRUSION IS .25 mm PER SIDE. D1 AND E1 ARE MAXIMUM BODY SIZE DIMENSIONS INCLUDING MOLD MISMATCH
- DETAILS OF PIN 1 IDENTIFIER IS OPTIONAL BUT MUST BE LOCATED WITHIN THE ZONE INDICATED
- DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION IS .08 mm IN EXCESS OF THE b DIMENSION AT MAXIMUM MATERIAL CONDITION. DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OR THE FOOT.
- EXACT SHAPE OF EACH CORNER IS OPTIONAL

- 10 ALL DIMENSIONS ARE IN MILLIMETERS
- 11 THIS OUTLINE CONFORMS TO JEDEC PUBLICATION 95 REGISTRATION MO-136, VARIATION BP, BQ, BR & BS



	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
P	16.80	17.00	16.80	17.00	16.80	17.00	16.80	17.00	16.80	17.00
P1	13.80	14.00	13.80	14.00	13.80	14.00	13.80	14.00	13.80	14.00
P2	12.00	BSC	12.35	BSC	12.00	BSC	11.60	BSC	12.40	BSC
X	.40	.60	.30	.50	.30	.40	.20	.30	.20	.30
e	.80	BSC	.65	BSC	.50	BSC	.40	BSC	.40	BSC
N	64		80		100		120		128	

TOLERANCES UNLESS SPECIFIED

DECIMAL	±
ANGULAR	±

www.IDT.com

San Jose, CA 95138
 PHONE: (408) 284-8200
 FAX: (408) 284-8591

DATE: _____

TITLE: PN/PNG PACKAGE OUTLINE

SIZE: 14.0 X 14.0 X 1.4 mm TQFP

DRAWING No. PSC-4036

DO NOT SCALE DRAWING

SHEET 2 OF 2